occasion by Mrs. Chamberlin. Mr. W. H. Harrington read the report of the entomological branch, indicating the work so far accomplished in the study of the Ottawa fauna, and the amount that would still be required to develop a knowledge of the various orders. The report referred to some rare species, and to others which had been unusually abundant or destructive. A case specially prepared showed many of the insects mentioned, with labels giving scientific and common names, and food-plants. Some discussion followed the lecture and reports; and a vote of thanks was tendered to the lecturer for his valuable paper.

— The electrical exhibition at Caen, France, will open May 15. The board in charge consists of Count du Moncel, honorary president; MM. Boreux, Boutard, Lecornu, Rabut, Professor Neyreneuf, M. Berjot, *père*, MM. Baumier and Veriene. Any applications for space should be addressed to the mayor of Caen, who is also a member of the board.

— A paper on Our coal interests, read by P. W. Sheafer at the annual meeting of the Mining institute of Pennsylvania, held at Shenandoah, Jan. 27, has been printed in full in the Mining herald of that place for Feb. 24.

— The *Scientific American supplement* for March 17 contains a long article by L. P. Gratacap, on the American museum of natural history in Central Park, New York.

— The second report on the Peter Redpath museum of McGill university, just issued, contains several papers by Principal Dawson, noticing important donations, and describing new and interesting specimens: one on a whale from the Saxicava gravel, near Smith's Falls, Ontario, 420 feet above the St. Lawrence; another on miscellaneous carboniferous fossils from the eastern provinces; and a third on graptolites of the Quebec group.

— Telegrams to the daily press announce that the scientific expedition sent out by the United-States government, under the charge of Prof. Edward S. Holden, to observe the coming eclipse of the sun at the Caroline Islands, reached Lima, Peru, in good health, and had just sailed thence in the U. S. sloop-of-war Hartford for their destination.

— Dr. Paul Topinard took occasion, at one of his last spring's course of lectures at the school of anthropology in Paris, to sum up the labors of Count George Louis LeClerc Buffon [1707–1788] as a student of the natural history of man, considering him "as the chief of the new school which produced Étienne Geoffroy Saint-Hilaire, and the precursor of Lamarck and Darwin." — "He was not only the precursor of Lamarck, but his inspirer."

— In our Summary, paragraph 372, for 'Rurichnites,' read 'Rusichnites,' and for 'Traena,' 'Fraena.'

## *RECENT BOOKS AND PAMPHLETS.*

**Adrews**, L. W. I. Zur kenntniss einiger isomeren bromnitrobenzolsulfonsäuren. II. Ueber triphenylborat. Bonn, 1882. 45 p. 8°.

**Barner**, F. Krystallographische untersuchung einiger organischen verbindungen. Göttingen, 1882. 45 p., pl. 8°.

**Bellardi**, L. I molluschi dei terreni terziarii del Piemonte e della Liguria. III. Gasteropoda. Torino, *Loescher*, 1883. 253 p., 12 pl. 4°.

**Bethke**, A. Ueber die bastarde der veilchen-arten: inaug.-diss. Königsberg, *Beyer*, 1882. 20 p. 4°.

**Beyda**, H. F. T. Mathematische beschäftigungen aus früheren jahren. i., ii. heft. Stuttgart, *Metzler*, 1883. 48 p. 8°.

**Boedeker**, H. I. Ueber benzylanalin und phenylbenzylhydrazin. II. Diazobenzolcinid und jodaethyl: inaug.-diss. Göttingen, 1882. 36 p. 8°.

**Brauer**, F. Offenes schreiben als antwort auf Hrn. Baron Osten-Sackens 'critical review' menier arbeit über die notacanthen. Wien, *Hölder*, 1883. 11 p. 8°.

**Caldarera**, F. Introduzione allo studio della geometria superiore. Vol. i. Palermo, *Lauriel*, 1882. 626 p., 8 pl. 8°.

**Charencey**, H. de. Mélanges de philologie et de paléographie américaines. Paris, *Leroux*, 1883. 195 p. 8°.

**Clevenger**, S. V. Art institute lecture on artistic anatomy and the sciences useful to the artist. Chicago, *Newell, pr.*, 1883. 20 p. 8°.

**Corrente**, G. Sulla fillossera. Caltanissetta, 1882. 10 p. 4°.

**Doormann**, C. Anwendung der Lamé'schen functionen auf probleme der potentialtheorie bezüglich der dreiaxigen ellipsoids und der Fresnel'schen elasticitätsflache: inaug.-diss. Leipzig, 1882. 74 p. 8°.

**Ebert**, T. Die tertiären ablagerungen der umgegend von Cassel: inaug.-diss. Göttingen, 1882. 28 p. 8°.

**Garbini**, A. Apparecchio della digestione nel Palaemontes varians. Verona, *tip. Franchini*, 1882. 89 p., 3 pl. 8°.

**Kraetzschmar**, L. Ueber die verbreitung der lecithin im pflanzenreich: inaug.-diss. Göttingen, 1882. 30 p. 8°.

**Landsberg**, Max. Ueber imide zweibasischer säuren: inaug.-diss. Königsberg, *Beyer*, 1882. 58 p. 8°.

**Loe**, A. Ueber den glycerinäther: inaug.-diss. Göttingen, 1882. 37 p. 8°.

**Luerssen**, Chr. Die pflanzen der Pharmacopoea germanica botanisch erläutert. i lief. Leipzig, *Haessel*, 1883. 64 p., illustr. 8°. [To contain 6–7 lief.]

**Manzoni**, A. La struttura microscopica delle spugne silicee del miocene medio delle provincie di Bologna e Modena. Bologna, *Treves*, 1882. 24 p., 7 pl. 4°.

**Mari**, G. La storia naturale nelle sue applicazione, con riguardo speciale ai prodotti italiani. Milano, *Rivolta*, 1883. 11+904 p. 8°.

**Matthews**, F. E. I. Verbindungen der blausäure mit den halogenwasserstoffsäuren. II. Condensation einiger aldehyde mit acetessigäther, etc.: inaug.-diss. Bonn, 1882. 42 p. 8°.

**Merrick**, C. S. Ueber die einwirkung von jodallyl auf anhydrobenzolyldiamidobenzol: inaug.-diss. Göttingen, 1882. 34 p. 8°.

**New York** — State survey. Report for the year 1881. James T. Gardiner, director. Albany, *Weed, Parsons, & Co., pr.*, 1882. 81 p., 1 pl. 8°. 5 maps.

**Olleck**, H. von. Analytische untersuchungen über das verhalten von phosphaten zu citronensäure-lösungen: inaug.-diss. Göttingen, 1882. 29 p. 8°.

**Oschatz**, F. Experimentalle untersuchungen über die physiologische wirkung der chinolins: inaug.-diss. Göttingen, 1882. 50 p. 8°.

**Pieper**, R. Ueber einige metamere hydroxylaminderivate: inaug.-diss. Königsberg, *Beyer*, 1882. 38 p. 8°.

**Schirmacher**, E. Die diluvialen wirbelthierreste der provinzen Ost.- und Westpreussen: inaug.-diss. Königsberg, *Bayer*, 1882. 52. p., 5 pl. 8°.

**Schutzkwer**, Nachum. Das coffein und seine verhaltung im thierkörper: inaug.-diss. Königsberg, *Bayer*, 1882. 25 p. 8°.

**Steffen**, M. Die landwirthschaft bei den altamerikanischen kulturvölkern. Leipzig, 1883. 139 p. 8°.

**Wandtafeln** (Vier) zur erklärung der elektrodynamischen maschinen. München, *Buchholz*, 1883. imp. f°. Mit text, 10 p. 8°.

**Wiesinger**, F. Ueber die einwirkung von eisenchlorid auf orthophenylendiamin: inaug.-diss. Göttingen, 1882. 31 p. 8°.